T4P is the standard mark for the "P-mount" plug-in-connector system. Products carrying this mark are interchangeable and compatible with each other.

Technics

Semi-Automatic Turntable System

SL-B200

Operating instructions

The model number of this product may be found on the back of the unit, and the serial number on the bottom of the unit.
Please note the model and serial numbers of this unit in the space provided and retain this booklet as a permanent record of your purchase to aid identification in the event of theft.

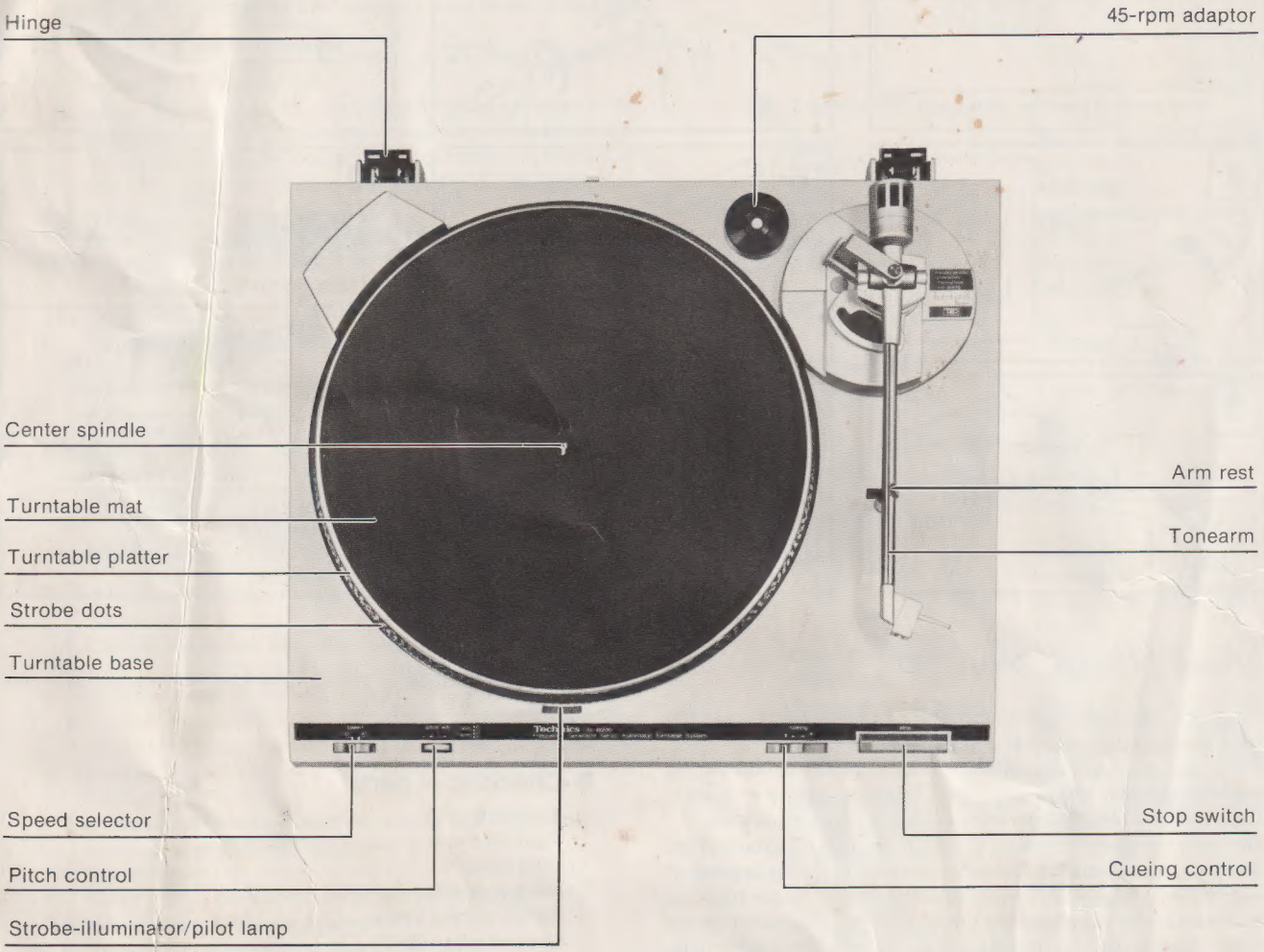
MODEL NUMBER **SL-B200**

SERIAL NUMBER

Before operating this products, please read these instructions completely.

Thank you for choosing the SL-B200.
For optimum performance and safety, please read these instructions carefully.

Parts identification



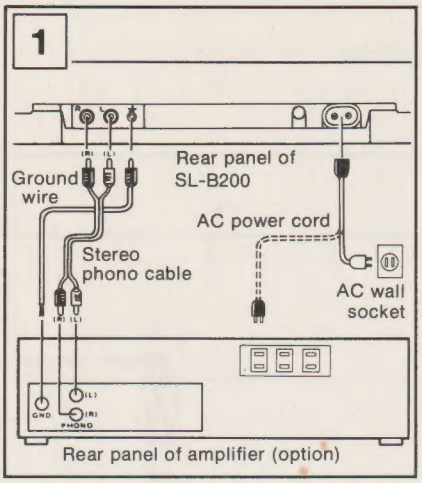
CAUTION
RISK OF ELECTRIC SHOCK DO NOT OPEN

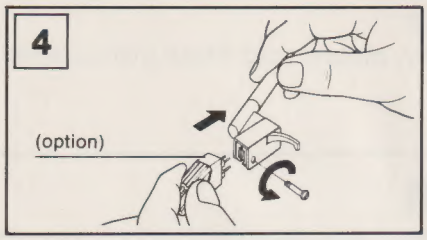
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE SCREWS. NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

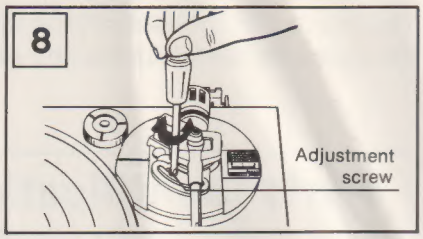
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

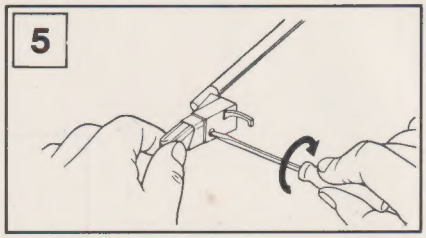
The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

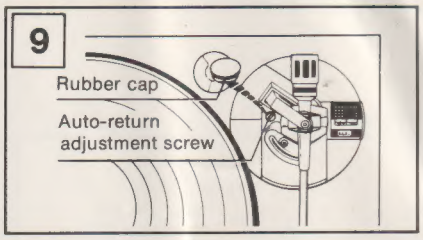
"WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture."

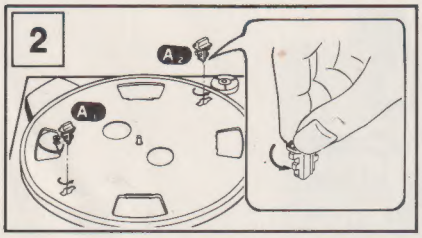


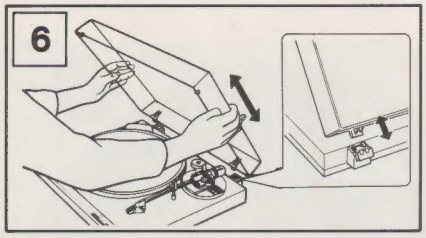


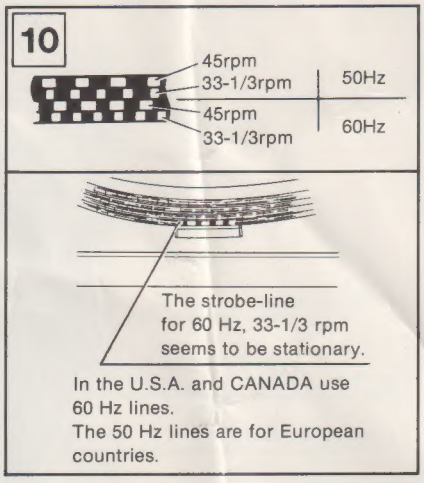


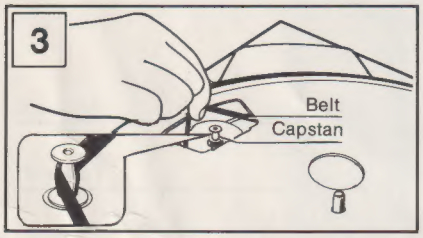


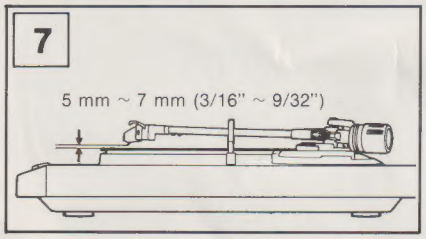












Dear Stereo Fan

Technics. The science of sound. Our name represents over 100 high quality audio products, in every price range.
From our revolutionary direct drive turntables to our highly acclaimed linear phase speakers, Technics quality and value have become almost legendary among audio enthusiasts.
Our truly complete selection of turntables (including belt-drive, direct-drive, and quartz-locked models with varying degrees of automation) now includes an exciting line of linear tracking turntables with zero tracking error. Another innovation, direct drive cassette decks, is available in both slim and micro formats. In fact, with Technics micro series, you can assemble an entire system of the highest quality with truly compact dimensions. Features like our new computer-drive new class-A amplification and quartz-synthesizer tuning have created tremendous excitement among reviewers and customers alike.
Amplifiers, tuners, headphones, microphones, cartridges, open reel decks, sound processors—we are proud of all our high quality equipment and we are constantly seeking to improve our products, in terms of performance and handling ease. In addition, our confidence in the reliability of our merchandise (demonstrated by our warranties) and the reasons for our enormous and rapid growth become obvious.

Caution:

- Attach the dust cover last to make assembly and adjustments easier.

■ Checklist of parts

Turntable unit	1
Turntable mat	1
Dust cover	1
45-rpm adaptor	1
Stereo phono cable	1
Ground wire (GND)	1
AC power cord	1

Connections

Use the stereo phono cable to connect the turntable to your amplifier or receiver. Be sure that the white plugs are connected to the left channel jacks and the red plugs are connected to the right channel jacks. Plug the ground wire's plug into the turntable's ground jack and connect the wire to the amplifier or receiver's ground(GND) screw. Regarding the AC cord, plug the female end into the truntable AC jack and plug the other end into an AC wall socket. **(Fig. 1)**
Note that hum may occur if your neglect to connect the ground wire.

Before use

To avoid damage due to vibration or shock incurred during shipment, this unit is packed with protective materials. Be sure to remove these before use. Keep these materials for reuse should it become necessary to transport the turntable again.

- Remove turntable spacers Ⓐ1 ~ Ⓐ2 . **(Fig. 2)**

Assembly

1. Hold the belt with your fingers and place it around the capstan. **(Fig. 3)**
2. Place the turntable mat on the platter.

> **Note:**
> After placing the mat on the platter, turn the platter clockwise about ten full rotations by hand.
> This is necessary to assure correct operation of the automatic mechanism.

■ Installation of cartridge

(An example of cartridge installation is shown in **Figs. 4 and 5.**)

> Plug-in connector cartridges are now available from Ortofon (Denmark), Shure (U.S.A), Audio Technica (Japan), Empire, Pickering, Stanton (USA) as well as from Technics. All of these cartridges are designed for perfect matching with this turntable in all areas including weight, tracking force, stylus tip position, and center of gravity. Therefore, you have the option of employing a wide range of cartridges from the world's top manufacturers without the trouble of lead wire connections or tracking force adjustment.

When installing a cartridge, follow the instructions that came with the cartridge.

1. Remove the cartridge attachment screw.
2. Align the pins on a cartridge with the tonearm connector and plug it into the tonearm as far as it will go. **(Fig. 4)**
3. Tighten the cartridge attachment screw. **(Fig. 5)**

■ Attaching the dust cover (Fig. 6)

Hold both sides of the cover and lower it into the hinge slots.
To remove the cover, open it fully and pull upward.

> **Note:**
> Opening or closing the cover during play may cause vibrations and groove skipping.
> If you must open the cover during play, do so very gently.

Placement

- **Place the unit in a stable and horizontal position where there is little or no vibration.**
- **Place the unit away from the speakers so that it will be subject to as little direct sound radiation as possible.**
- **Do not place the unit where it will be exposed to direct sunlight, dust, moisture or heat.**
- **Place it in a well ventilated location.**

Operation

1. Put a record on the turntable mat.
2. Remove detachable stylus protector if fitted.
3. Set the speed selector to the correct speed.
4. Set the cueing control to the "▼" position.
5. Move the tonearm over the desired groove. The platter will start turning.
6. Set the cueing control to the "▼" position.
   The tonearm will descend and play will begin.
   At the end of the record, the tonearm will automatically return to the arm rest and the turntable will stop.

■ Stopping the turntable

Push the stop switch.
The tonearm will return to the arm rest and the turntable will stop.

■ Temporarily interrupting play

Set the cueing control to the "▼" position.
This will make the tonearm rise from the record.

■ Playing 45-rpm records having large center holes

Place the 45-rpm adaptor over the center spindle.
Set the speed selector to the "45" position.

■ If the unit is not to be used for some time

If the cartridge has a detachable stylus protector, replace after use.
Close the dust cover.

Adjustments

■ Arm-lift height adjustment

The arm-lift height (distance between the stylus tip and the record surface when the cueing control is at the "▼" position) has been adjusted at the factory to approximately 5 to 7 mm (3/16"-9/32"). **(Fig. 7)**

If the clearance is too narrow or too wide, turn the adjustment screw clockwise or counterclockwise. **(Fig. 8)**

Clockwise rotation

—distance between the record and stylus tip is decreased.

Counterclockwise rotation

—distance between the record and stylus tip is increased.

■ Adjustment of automatic return position (Fig. 9)

If the stylus does not land in the lead-in groove, adjust as follows.

1. Clamp the tonearm to the arm rest.
2. Remove the rubber cap.
3. Turn the screw with a screwdriver, clockwise or counterclockwise as necessary.

If the tonearm tends to return to the arm rest before the play has finished,

—turn counterclockwise.

If the tonearm fails to return after the final groove,

—turn clockwise.

■ Speed adjustment (pitch control) (Fig. 10)

There are strobe-lines cut on this turntable platter to indicate correct rotational speed.

If the strobe-line appears to be moving as the turntable rotates, adjust while playing a record.

1. Set the speed selector to the speed to be adjusted.
2. Watch the dot pattern on the side of the platter. Turn the pitch control one way or the other until the dots appear to stand still. This is the correct speed.
3. Turning the pitch control in the "+" direction increases the speed.
4. Turning the pitch control in the "–" direction decreases the speed.

Note:

Strobe dot pattern

This unit's strobe illuminator operates at the AC line frequency which generally has a 0.2% fluctuation.

This fluctuation, when present, may make the strobe pattern appear to change. However, actual turntable speed does not change, because the DC motor is not affected by AC power line frequency.

Notes and maintenance

■ **Do not touch or hold the tonearm during automatic operation.**

■ **Carefully remove dust and dirt from records and stylus.**

Dust and dirt degrade sound quality and cause excessive wear of the stylus and grooves.

■ **Wipe the dust cover and turntable base with a soft, dry cloth.**

Never use volatile cleaners such as alcohol, benzene or thinner.

Do not use chemically treated dust cloths. Do not expose the cover to insecticide spray.

To remove stubborn spots, first pull out the AC plug and detach the cover.

Then wipe the cover with a soft cloth slightly moistened with a mild soap and water solution.

Do not wipe the cover during play, or the tonearm may be attracted toward the cover due to the generation of static electricity.

■ **Transporting and shipping the turntable**

Pack the unit in the reverse order from unpacking. Use the original packing material if possible. Otherwise, take these steps:

- Remove the platter and mat and wrap them.
- Tape or tie the tonearm to the arm rest so it cannot shake free.
- Wrap the turntable base with a blanket or soft paper to avoid scratches or damage.

■ **How to remove and install the turntable platter. (Refer to Fig. 3)**

The belt is connected to the capstan and the inner drive rim of the platter.

Before removing the platter, release the belt from the capstan.

When reinstalling the platter, lower it over the turntable shaft and engage the belt with the capstan.

Note:

Be careful not to let oil or grease contact the belt.

If grease inadvertently contacts the belt, disconnect the AC power plug first and wipe the belt clean with alcohol.

Suggestions for safety

Before using this unit, be sure to read applicable items of the operating instructions and these safety suggestions carefully; and afterwards keep them handy for future reference. Take special care to follow the warnings indicated on the unit itself as well as in the operating instructions.

1. **Avoid places where there is water or humidity.**
   Do not use this unit near a bathtub, washbasin, swimming pool, or the like. Damp basements should also be avoided.
2. **Do not allow water or any foreign object to get inside this unit.**
   Do not place small metal objects or anything containing liquid on or near the unit.
3. **Avoid placement of the unit where it will be exposed to the direct rays of the sun, or where ventilation is inadequate.**
   Do not place this unit in a bookcase or between cabinets, or where curtains or furniture may obstruct the ventilation holes.
4. **Place this unit away from heat-emitting appliances.**
   Never place this unit near a radiator, heat register, stove, or any other heat-emitting equipment (including amplifiers).
5. **Placement**
   Place the unit on a stable, vibration-free, level shelf or stand.
6. **Use of a cart or stand.**
   When deciding on a cart or stand, be sure to use only with the cart or stand recommended by the manufacturer.
7. **Wall or ceiling installation.**
   If the unit is to be mounted on a wall or ceiling, be sure to do so only as recommended by the manufacturer.
8. **Check the voltage rating of this unit before connecting the unit to a power supply.**
   Be sure to connect the unit only to the type of power supply indicated in the operating instructions, or as indicated on the unit itself.
9. **Care of the power cord and plug.**
   Take care that the cord is not bent sharply (especially near its connection to the unit or near the plug), that nothing is placed on it, and that it is not pinched or crushed. Never take hold of the plug or cord if your hand is wet, and always be sure to grasp the plug body when connecting or disconnecting it.
10. **If the unit will not be used for a long period of time:**
    Be sure to disconnect the power cord.
11. **Maintenance**
    Refer to the operating instructions for details.
12. **Never attempt repairs yourself:**
    (a) If the power cord or plug is damaged.
    (b) If a foreign object or liquid falls into the unit.
    (c) If the unit is exposed to rain.
    (d) If the unit does not function normally, or if operation shows an unusual change.
    (e) If the unit has been dropped and the cabinet or chassis are damaged...etc.
    Unplug the power cord and consult with a qualified technician (or the dealer from whom the unit was purchased or the nearest servicenter).
13. **Repairs**
    Except for adjustments explained in the operating instructions, do not attempt any repairs yourself. Be sure to request service from a qualified technician (or your dealer or nearest servicenter).

Specifications

■ General

Power supply:	120 V AC, 60 Hz
Power consumption:	3 W
Dimensions: (W×H×D)	43 × 9.3 × 37.5 cm (16-15/16" × 3-21/32" × 14-3/4") [Maximum height when top (dust cover) is open. 43 × 36 × 41 cm (16-15/16" × 14-5/32" × 16-1/8")]
Weight:	3.3 kg (7.3 lb.)

■ Turntable section

Type:	Semi-automatic turntable
Features:	Auto return Auto stop
Drive method:	Belt drive
Motor:	DC motor
Drive control method:	Frequency generator servo control
Turntable platter:	Aluminum die-cast Diameter 30.4 cm (12 inches)
Turntable speeds:	33-1/3 rpm and 45 rpm
Wow and flutter:	0.045% WRMS (JIS C5521) ±0.06% peak (IEC 98A Weighted)
Rumble:	−70 dB (IEC 98A Weighted)

■ Tonearm section

Type:	Statically-balanced straight tonearm Plug-in connector cartridge system
Effective length:	230 mm (9-1/16")
Overhang:	15 mm (19/32")
Tracking error angle:	Within 2°32' at the outer groove of 30 cm (12") record Within 0°32' at the inner groove of 30 cm (12") record
Effective mass:	13.5 g (including cartridge)
Stylus pressure:	1.25 g
Applicable cartridge weight:	6 g
Phono cable capacitance:	100 pf

Specifications subject to change without notice.
Weight and dimensions shown are approximate.

Panasonic Company
Division of Matsushita Electric Corporation of America
One Panasonic Way, Secaucus,
New Jersey 07094

Matsushita Electric of Canada Limited
5770 Ambler Drive, Mississauga, Ontario
L4W 2T3

Panasonic Hawaii, Inc. ("PHI")
91-238 Kauhi St. Ewa Beach P.O. Box 774
Honolulu, Hawaii 96808-0774

Panasonic Sales Company,
Division of Matsushita Electric of Puerto Rico, Inc.
Ave. 65 De Infanteria, KM 9.7
Victoria Industrial Park
Carolina, Puerto Rico 00630

Printed in Japan

SFNUB62M01
S0483W2